



4K25X Installation Manual

XPON ONT 4GE 2POTS with Wi-Fi Dual-Band

Rev 1.0

1.1 Product Description

Thanks for choosing the PPC Home Gateway Unit. All PPC terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators or cable operators. These boxes are based on the mature GPON and Gigabit EPON technology, which have high ratio of performance to price, they are highly reliable and easy to maintain, with guaranteed QoS for different service. And they are fully compliant with GPON and EPON technical regulations such as ITU-T G.984.x, IEEE802.3ah and technical requirement of EPON Equipment. Dual mode PPC ONT can detect and exchange PON mode automatically.

1.2 Application Chart

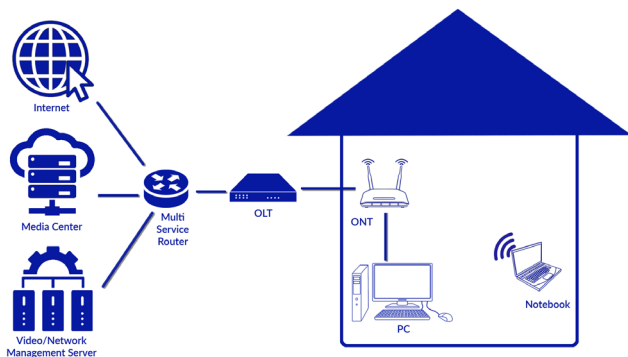


Fig 1 : Network Architecture



Fig 2 : 4K25X

1.3 Technical Parameters

Technical items	4K25X(4GE 2POTS with Wi-Fi Dual-Band) PPC ONT
PON interface	1 GPON/EPON interface, SC single-mode/single-fiber. GPON: uplink 1.25Gbps, downlink 2.5Gbps; EPON: symmetric 1.25Gbps.
Wavelength	Tx 1310nm, Rx 1490nm
Optical interface	SC/APC
LAN interface	4 x 10/100/1000Mbps auto adaptive Ethernet interfaces.10/100M Full/Half, 1000M Full Duplex, RJ45 connector.
POTS	2 RJ11 port
LED	10, For Status of POWER, PON, LOS, INT, LAN1, LAN2, LAN3, LAN4, TEL1, TEL2, 2.4G, 5G, USB
Operating condition	Temperature: -5°C~55°C Humidity: 10%~90% (non-condensing)
Storing condition	Temperature :-30°C~60°C Humidity :10%~90% (non-condensing)
Power supply	DC 12V/1A
Power consumption	≤6W
Dimension	160mmx139.5mmx28.5mm(L×W×H)
Net weight	0.24Kg

1.4 Package Contents

Contents	Quantity
PPC ONT	1 pcs
Power Adapter	1 pcs
User manual	1 pcs
Cat 5E cable	1 pcs

2.1 Installation Requirements

Installation Environment Requirements

PPC ONT equipment must be installed in the interior, and to ensure the following conditions:

- Confirmation at the PPC ONT installation at sufficient space to facilitate cooling machine.
- PPC ONT suitable operating temperature of -5°C ~ 55°C, humidity 10% to 90%.
- Device workplace should avoid radio transmitters, radar stations and high-frequency interference from power equipment.

Equipment Installation

1. Installed on the desktop
Place the machine on a clean bench, this installation is relatively simple, you can observe the following operation:
 - Ensure the smooth workbench.
 - Around the device enough space for heat dissipation.
2. Mounted on the wall
 - Observation PPC ONT equipment chassis two cruciform recess, in accordance with the position of the groove, installed two screws in the wall.
 - The original selected two mounting screws gently snap into recesses aligned.
 - Slowly let go, so that the device under the support of the screw hanging on the wall.

2.2 LED Indications

LED	Panel Marking	Status	Description
Power	POWER	On	The device is powered up.
		Off	The device is powered down.
Optical signal loss	LOS	Blink	Device does not receive optical signals.
		Off	Device has received optical signal.
Registration	PON	On	The device is registered to PON system
		Off	Device is not registered to PON system
		Blink	Device registration is incorrect
Internet	INT	On	The routed WAN Internet access is normal
		Off	The routed WAN Internet access is abnormal
Interface	LAN	On	Port is connected properly (LINK).
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data (ACT).
	2.4G & 5G	On	Wi-Fi is enabled
		Off	Wi-Fi is disabled
	TEL	On	The connection between the TEL Port and Voice Server has been set.
		Blinking	The voice service of the TEL port is established.
		Off	The connection between the TEL Port and Voice Server is not set up.
USB	USB	On	USB Connection is normal
		Off	USB Connection is not set up



Fig 4 : ONT Back Panel

Name	Function
PON	Connect to OLT by SC type fiber connector, single mode optical fiber cable.
LAN	Connect PC or other devices with Ethernet port by Cat5 cable, RJ-45 connector.
POWER	Connect with power adapter. DC 12V, 1A.
TEL	Connect to Telephone with FXS port by telephone wire

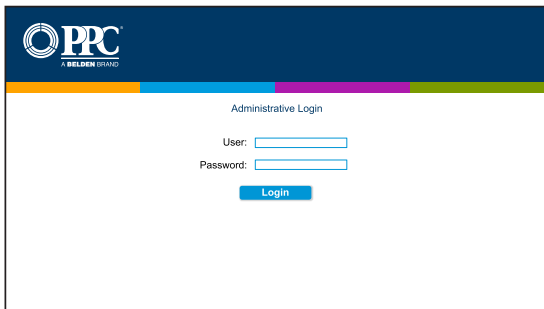
4LAN 2POTS with Wi-Fi dual mode PPC ONT provides simple Web management function.

3.1 Default Configuration

The following is the default device configuration information.

- Local (LAN access) Username: admin , Password: PPC<last 4 digits of the MAC address in small letter>.
- LAN port management IP address: 192.168.1.1/24

3.2 Basic Configuration



The image shows a web browser interface for administrative login. At the top is a dark blue header with the PPC logo and 'A Belden Brand' text. Below the header is a horizontal bar with four colored segments: orange, blue, purple, and green. The main content area is white and contains the text 'Administrative Login' centered. Below this text are two input fields: 'User:' followed by a text box, and 'Password:' followed by a text box. At the bottom center of the form is a blue button with the text 'Login' in white.

Fig 5 : Login Interface

Web login default username: *admin* Password: *admin*

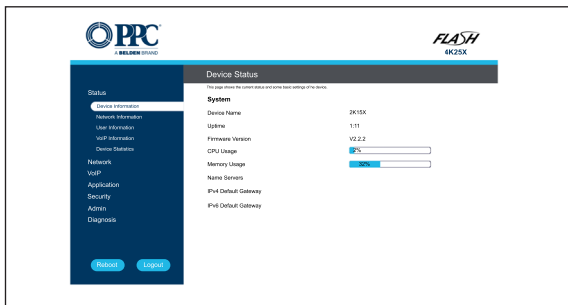


Fig 6 : Status

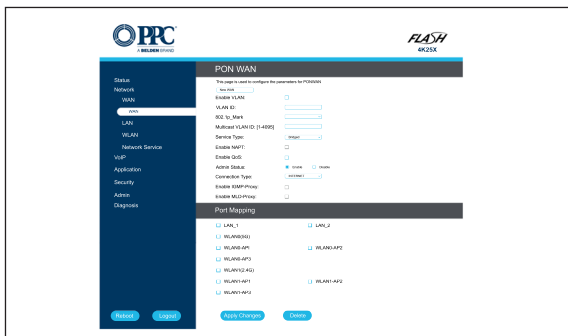


Fig 7 : WAN Connections

WAN connections will provide access to create/ delete/ modify the connections. From WAN connection list we can create a new WAN connection as per the requirements of the customer. All the details required for creating wan connection will be provided on the above web interface

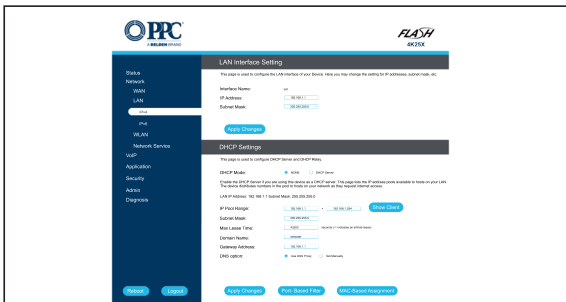


Fig 8 : LAN setting

IP Address and Subnet Mask: LAN port IP address and Mask.

DHCP option: Enable or disable DHCP server and configure IP address pool, DNS, etc.

Note: DHCP server changes take effect after the device is restarted.

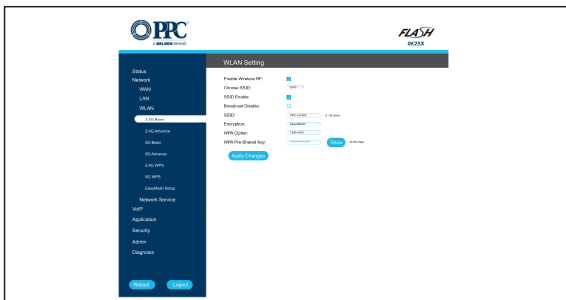


Fig 9 : WLAN Configuration

WLAN Basic Configuration helps us to select the wireless band (2.4 GHz & 5GHz) and also can change the parameters as per the requirement.

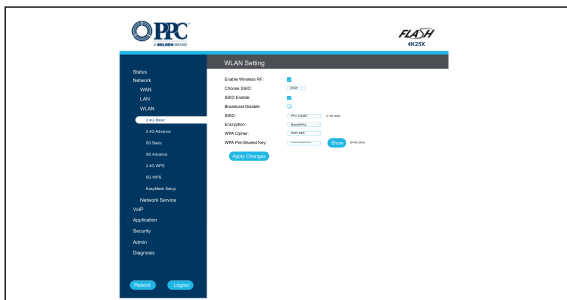


Fig 10 : WLAN Security Setting

WLAN Security Settings helps us to configure the Wi-Fi key encryption and authentication mode of the selected SSID.

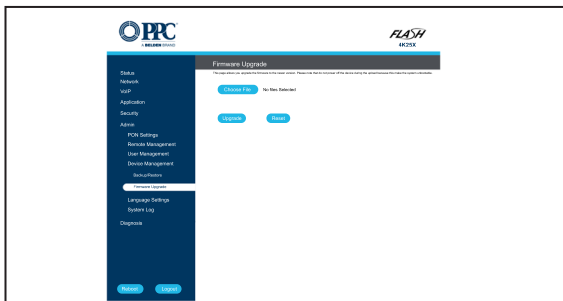


Fig 11 : Firmware Upgradation

The above web page will helps us to do upgrade the software/firmware of ONT

Warranty term & conditions:

<https://www.ppc-online.com/hubfs/Legal Policies/actives-product-warranty.pdf>

End of life policy:

<https://www.ppc-online.com/hubfs/Legal Policies/actives-end-of-life-policy.pdf>

Service level agreement:

<https://www.ppc-online.com/hubfs/Legal Policies/actives-service-level-agreement.pdf>